



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			(Pathology)
AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	: Mr. SHIVAM : 28 YRS/MALE : : : 01518939 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1643764 : 012410150035 : 15/Oct/2024 11:41 AM : 15/Oct/2024 12:09PM : 15/Oct/2024 11:57AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.0	
	CON	APLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (RB	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		15.4	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC		5.38 ^H	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOLUME		46.5	%	40.0 - 54.0
by CALCULATED BY AU MEAN CORPUSCULAR	<i>tomated hematology analyzer</i> VOLUME (MCV)	86.5	fL	80.0 - 100.0
	TOMATED HEMATOLOGY ANALYZER HAEMOGLOBIN (MCH)	28.5	pg	27.0 - 34.0
by CALCULATED BY AU	TOMATED HEMATOLOGY ANALYZER HEMOGLOBIN CONC. (MCHC)	33	g/dL	32.0 - 36.0
by CALCULATED BY AU	TOMATED HEMATOLOGY ANALYZER		, i i i i i i i i i i i i i i i i i i i	
RED CELL DISTRIBUTIO)N WIDTH (RDW-CV) TOMATED HEMATOLOGY ANALYZER	13	%	11.00 - 16.00
RED CELL DISTRIBUTIO	ON WIDTH (RDW-SD) tomated hematology analyzer	42.1	fL	35.0 - 56.0
MENTZERS INDEX		16.08	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDEX		20.81	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS		11220 ^H	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY	NIL	, chini	0.00 - 20.00
by AUTOMATED 6 PART	HEMATOLOGY ANALYZER			
NUCLEATED RED BLOC	DD CELLS (nRBCS) % TOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCOC	<u>CYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	48 ^L	%	50 - 70



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Dr. Vinay Chopra

MD (Pathology & Microbiology)

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SHIVAM **AGE/ GENDER** : 28 YRS/MALE **PATIENT ID** :1643764 **COLLECTED BY** :012410150035 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 15/Oct/2024 11:41 AM **BARCODE NO. COLLECTION DATE** :15/Oct/2024 12:09PM :01518939 CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :15/Oct/2024 11:57AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 43^H LYMPHOCYTES % 20 - 40by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 5386 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 4825 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 224 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 785 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 307000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.3 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 6.50 - 12.0 fl by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 75000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 24.4 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.3 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mr. SHIVAM			
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LIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ER	YTHROCYTE SEDIM	IENTATION RATE (ESF	2)
RYTHROCYTE SEDI	MENTATION RATE (ESR)	10	mm/1st h	0 - 20
	GATION BY CAPILLARY PHOTON			
ystemic lupus eryth CONDITION WITH LO	be used to monitor disease a ematosus W ESR In with conditions that inhibi	t the normal sediment	ation of red blood cells, su	bove diseases as well as some others, such as ich as a high red blood cell count malities. Some changes in red cell shape (such
polycythaemia), sigi is sickle cells in sick IOTE:	le cell anaemia) also lower tl	ne ESR.	, and como protom abrier	maintes. some changes in rea con shape (such
polycythaemia), sign is sickle cells in sick JOTE: . ESR and C - reactiv 2. Generally, ESR doe 8. CRP is not affected 6. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dex	le cell anaemia) also lower the e protein (C-RP) are both ma es not change as rapidly as do by as many other factors as i ed, it is typically a result of the lowe a higher ESR, and menstru	he ESR. rkers of inflammation. Jes CRP, either at the s s ESR, making it a bett wo types of proteins, g lation and pregnancy c	tart of inflammation or as er marker of inflammation lobulins or fibrinogen. an cause temporary elevat	it resolves.
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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ARCODE NO.	: 01518939	COLLECTION	DATE :	15/Oct/2024 12:09PM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING	DATE :	15/Oct/2024 12:45PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CAN'IT		
est Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/BIOC	HEMISTRY	
		GLUCOSE FASTING (F	5)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	100.48 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0





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BARCODE NO. : 01518939		COLLECTION DATE	: 15/Oct/2024 12:09PM
	NOSTIC LAB	REPORTING DATE	: 15/Oct/2024 12:43PM
CLIENT ADDRESS : 6349/1, N	NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval
		ROFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by cholesterol oxidase pap	206.14 ^H		OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDAS	E (ENZYMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SER by SELECTIVE INHIBITION	RUM 38.96	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTON	120.12 IETRY	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTON		n mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTON	47.06 ^H	mg/dL	0.00 - 45.00
OTAL LIPIDS: SERUM	647.6	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOM CHOLESTEROL/HDL RATIO: SERU by CALCULATED, SPECTROPHOTOM	IM 5.29 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
DL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTON	3.08 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 15/Oct/2024 12:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		6.04 ^H	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the

age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SHIVAM AGE/ GENDER : 28 YRS/MALE **PATIENT ID** :1643764 **COLLECTED BY** :012410150035 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 15/Oct/2024 11:41 AM **BARCODE NO.** :01518939 **COLLECTION DATE** :15/Oct/2024 12:09PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :15/Oct/2024 12:43PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.85 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.17 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.68 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 34.2 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM U/L 0.00 - 49.00 69.2^H by IFCC, WITHOUT PYRIDOXAL PHOSPHATE 0.49 RATIO 0.00 - 46.00 AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl	72.57	U/L	40.0 - 130.0
PROPANOL			
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	62.1 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	7.48	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	4.35	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.13	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.39	RATIO	1.00 - 2.00

INTERPRETATION

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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	Test Name	Value	Unit	Biological Reference interval
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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:	

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6

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Test Name		Value	Unit	Biological Reference interval
	кі	DNEY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		24.16	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN		1.16	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC)GEN (BUN): SERUM	11.29	mg/dL	7.0 - 25.0
by CALCULATED, SPE		11.27	ing/dL	7.0 - 23.0
BLOOD UREA NITRO	GEN (BUN)/CREATININE	9.73 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	FOTBODUOTONETRY			
UREA/CREATININE	ECTROPHOTOMETRY RATIO: SERLIM	20.83	RATIO	
by CALCULATED, SPE		20.00	in the	
URIC ACID: SERUM		9.78 ^H	mg/dL	3.60 - 7.70
by URICASE - OXIDA: CALCIUM: SERUM	SE PEROXIDASE	9.72	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	7.72	IIIg/uL	8:30 - 10:00
PHOSPHOROUS: SEF		3.5	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV		142.5	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.16	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN		1.10		0.00 0.00
CHLORIDE: SERUM		106.88	mmol/L	90.0 - 110.0
by ISE (ION SELECTIN	/E ELECTRODE)			
		00		
estimated glome (egfr): serum	RULAR FILTERATION RATE	88		
by CALCULATED				
INTERPRETATION:				

<u>INTERPRETATION:</u> To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology) M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. SHIVAM		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1643764
COLLECTED BY	:	REG. NO./LAB NO.	: 012410150035
REFERRED BY		REGISTRATION DATE	: 15/Oct/2024 11:41 AM
BARCODE NO.	: 01518939	COLLECTION DATE	: 15/Oct/2024 12:09PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 15/Oct/2024 12:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM		. 13/ OCI/ 2024 12.451 M
CLIENT ADDRESS	. 0545/1, MCHOLSON ROAD, AN	IDALA CANT I	
Test Name		Value Unit	Biological Reference interva
4. High protein intake 5. Impaired renal fun	iction plus		
 High protein intake Impaired renal fun Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m 	iction plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti		icosis, Cushing's syndrome, high protein die
 High protein intake Impaired renal fun Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. 	iction plus ke or production or tissue breakdov xia, high fever). (e.g. ureter colostomy)	ion)	
 High protein intake Impaired renal fun Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia 	Action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor	ion)	icosis, Cushing's syndrome, high protein die
 High protein intake Impaired renal fun Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease.	ion) EVELS:	icosis, Cushing's syndrome, high protein die
4. High protein intake 5. Impaired renal fun 6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. IO:1) WITH DECREASED BUN :	ion) EVELS:	icosis, Cushing's syndrome, high protein die
4. High protein intake 5. Impaired renal fun 6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis.	ion) EVELS:	icosis, Cushing's syndrome, high protein die
4. High protein intake 5. Impaired renal fun 6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. nd starvation.	ion) EVELS:	icosis, Cushing's syndrome, high protein die
 High protein intake Impaired renal fun Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de 	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis.	ion) EVELS: re than creatinine) (e.g. obstructive uroj	icosis, Cushing's syndrome, high protein die
4. High protein intake 5. Impaired renal fun 6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuse	ion) EVELS: The than creatinine) (e.g. obstructive urop so out of extracellular fluid).	icosis, Cushing's syndrome, high protein die
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam	action plus ke or production or tissue breakdow xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine producti tetracycline, glucocorticoids) co:1) WITH ELEVATED CREATININE LE a (BUN rises disproportionately mor superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis.	ion) EVELS: The than creatinine) (e.g. obstructive urop the sout of extracellular fluid). in blood).	icosis, Cushing's syndrome, high protein die

8. Pregnancy. DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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Test Name	Va	lue Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated





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Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	DLOGY	
		OUTINE & MICROSCO	PIC FXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVE		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	ULEAR		CLEAR
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH		5.5		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY			
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY.	Ŭ		
	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANUL OF LUTINOP AUTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
	AINIATION			

MICROSCOPIC EXAMINATION

57 $\sim 10^{-1}$

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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5	
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	

CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT